





CU 6105 Central Unit

- · Central processor for the DCS 6000 Digital Conference System
- · Controls a system with up to 500 conference units
- · Supports up to 16 interpretation channels
- · Provides microphone and voting control
- TCP/IP Ethernet interface
- Reply function allows brief comments or questions without interrupting the speaker list or request queue
- · Web browser control
- Four analog outputs (group or interpretation channels out)



Description

The CU 6105 is a system controller for the DCS 6000 Digital Conference System. It is used for installations ranging from small systems with only a few conference units, to large systems with hundreds of conference units, channel selectors, interpretation and voting facilities.

The CU 6105 controls a system of up to 500 conference units and 150 interpreter units. Units are connected in a single bus cable structure known as the DCS-LAN; a proprietary high-speed digital audio, data and power bus. Units are connected in series daisy chained using CAT 5e (or higher) F/UTP or U/FTP cables, enabling highly flexible and inexpensive installations. To expand the number of participants, simply add inline data repeaters, junction boxes and power supplies to support hundreds of participants in multiple languages.

The CU 6105 features fully digital audio transmission of the floor channel, 16 interpretation channels and audio from the conference units at the same time. The audio from units can be combined into four groups using a built-in group matrix.

The CU 6105 features two analog audio inputs and four analog audio outputs. The four analog audio outputs are routed from four groups of conference units, the floor mix or the interpreter channels. This is useful for connecting to external PA systems, recording audio, or language distribution systems like the DIS Digital Wireless Infrared System. An Emergency Evacuation Message (EEM) is available using input 2 and a contact closure switch, overriding the audio content in the event of an emergency.

The OLED display on the front of the unit enables the user to setup basic system configurations in terms of maximum number of speakers/requests, microphone operation mode etc.

The CU 6105 provides a web interface that is accessed from a mobile device or computer over TCP/IP. The interface allows system setup and simple microphone control from any computer connected to the network. For advanced system management and conference control, SW 6000 Conference Management Software is available. The CU 6105 also provides a simple to use protocol for external control over Ethernet.

Features

The CU 6105 has the following features:

- · System control for the DCS 6000 Digital Discussion system
- Powers up to 60 units without an extra power supply
- Supports a system of up to 500 conference units and 128 interpretation stations
- Supports up to 16 interpretation channels and a floor mix of up to eight open microphones
- Expanded functionality with SW 6000 Conference Management software
- Multi-language web browser for system configuration, microphone control and basic operational parameters
- RJ-45 ports provide power, audio, and control transport across a chain of chairman, delegate, and interpretation units
- · Daisy-chain topology with loop-through connections or star topology
- Digital audio transmission with proprietary codec algorithm prevents unauthorized listening of the audio signal
- DCS-LAN connection using CAT 5e (or higher) shielded F/UTP or U/ FTP cabling
- Supports Reply functionality to briefly comment or ask a question to the present speaker
- Support for 4 microphone modes; Automatic, FIFO and Manual and VOX (voice activation)
- · Four analog audio outputs for group or interpretation channels
- TCP/IP Ethernet connection for browser control, SW 6000 and third party external control (AMX, Crestron etc.)
- · Built-in table for attaching seat numbers/names to units using a browser

Upgrade the CU 6105 with feature licenses for the following features:

- · Control of up to 500 conference units
- Up to 16 interpretation channels
- · Voting (3- and 5-button, attendance check)
- · Microphone operation mode VOX (voice activation)

Specifications

System Performance

The following table provides maximum number unit and channel counts per DCS 6000 system.

Max. number of conference units	500
Max. number of open "floor" microphones	8
Max. number of languages (interpreter channels)	16
Max. number of interpreter units	System: 128 In each booth: 32
Max. number Audio Output Units	20
Max. number Channel Selectors	Unlimited

Network

DCS-LAN outputs	Two (2) RJ45 female sockets
TCP/IP	One (1) RJ45 female sockets

Audio

Audio inputs

Analog Inputs	Two (2) 3-pin female XLR socket (electronically balanced)	
Emergency input - EEM	Input 2 with contact closure	
Nominal input level	switchable: el • 0 dBm (0.775V RMS) • -10 dBm (0.245V RMS)	
Max. input level	rel +15 dBm (4.5V RMS)	
Input Impedance	e 50-100 kΩ	
Audio outputs		
Analog audio out	audio out Four (4) 3-pin male XLR sockets (electronically balanced)	
Maximum load	ad > 1 k ohm	
Nominal output level	el 0 dBm at nominal input	
Max. output level	el 4.9V RMS ~ +16 dBm	

Electrical

Power consumption	22W/48V (150W max.)	
Supply voltage for discussion units	122W/48V	
Sound quality	24 bit audio, 32 kHz sampling frequency	
Frequency response	65 Hz-16 kHz	
THD	< 0.1 %	
Signal-to-noise ratio	> 85 dBA	

Mechanical

Mounting	tabletop standard 19" rack	
Dimensions (H x W x D)) 44.4 x 426 x 186 mm (1.75 x 16.8 x 7.2 in.)	
Color	r Black	
Weight	t 2.8 kg (6.17 lbs.)	
Temperature range	Storage: -20° to 60° C, 10- 80% humidity Operation: 5° to 40° C, 35- 80% humidity	

PS CU External Power Supply (SNP-A15T):

100-240 V, 50-60 Hz nominal
175 W
144 W (power factor: >0.9)
<0.5 W (no load)
48V/3A @ 40°C ^[1]
87%, typical
• 230 V: <80 A • 115 V: <40 A

[1] De-rate linearly to 50% @ 60°C



Certifications

The DCS 6000 system conforms to standard IEC 60914.

How To Order

Central Unit for DCS 6000 system. Includes license for 50 conference units and 4 interpreter channels (maximum of 500 units and 16 interpretation channels can be added with upgrade licenses.)

CU 6105

Included Accessories

- · PS CU in-line, universal power supply with mains cable
- Terminal block for EEM connector
- 19" rack brackets
- USB memory stick with user manuals

Feature Licenses

FL 6000 1B	Number of units; max 100
FL 6000 1C	Number of units; max 500
FL 6000 3A	Voice Activation (Vox); max 50 units
FL 6000 3B	Voice Activation (Vox); max 100 units
FL 6000 3C	Voice Activation (Vox); max 500 units
FL 6000 4A	Voting; max 50 units
FL 6000 4B	Voting; max 100 units
FL 6000 4C	Voting; max 500 units
FL 6000 5-8	Interpretation channels; 1-8
FL 6000 5-16	Interpretation channels; 1-16

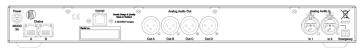
Connection Cables for DCS-LAN

0.5 m blac	k shielded Cat5e U/FTP cable (RJ45)	EC 6001-0.5
1 m blac	k shielded Cat5e U/FTP cable (RJ45)	EC 6001-01
2 m blac	k shielded Cat5e U/FTP cable (RJ45)	EC 6001-02
3 m blac	k shielded Cat5e U/FTP cable (RJ45)	EC 6001-03
5 m blac	k shielded Cat5e U/FTP cable (RJ45)	EC 6001-05
10 m blac	k shielded Cat5e U/FTP cable (RJ45)	EC 6001-10
20 m blac	k shielded Cat5e U/FTP cable (RJ45)	EC 6001-20
30 m blac	k shielded Cat5e U/FTP cable (RJ45)	EC 6001-30
50 m blac	k shielded Cat5e U/FTP cable (RJ45)	EC 6001-50

Advanced Setup

Distribution box with 4 outputs. DCS 6000 and DDS 5900 systems	JB 6104
DCS-LAN extension unit for additional 160 conference units	EX 6010
DCS-LAN Power Kit	PS 6001

Drawing

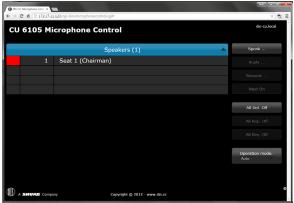


Back Panel

Browser Interface



Setup and Configuration



Microphone Control



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